IUPHAR Nomenclature Reports

International Union of Basic and Clinical Pharmacology. CX. Classification of Receptors for 5-hydroxytryptamine; Pharmacology and Function


International Union of Basic and Clinical Pharmacology. CXI. Pharmacology, Signaling, and Physiology of Metabotropic Glutamate Receptors

Karen J. Gregory and Cyril Goudet

Review Articles

El Enzymes as Therapeutic Targets in Cancer
Samir H. Barghout and Aaron D. Schimmer

Pharmacological Manipulation of Translation as a Therapeutic Target for Chronic Pain
Muhammad Saad Touaf, Stephanie I. Shiers, James J. Sahn, and Theodore J. Price

Mutations in G Protein–Coupled Receptors: Mechanisms, Pathophysiology and Potential Therapeutic Approaches
Torsten Schöneberg and Ines Liebscher

Post-Translational Modifications of G Protein–Coupled Receptors Control Cellular Signaling Dynamics in Space and Time
Anand Patwardhan, Norton Cheng, and JoAnn Trejo

Cognitive Impairment in Older Adults and Therapeutic Strategies
Thomas J. Montine, Syed A. Bakhari, and Lon R. White

Drug Addiction: Hyperkatifeia/Negative Reinforcement as a Framework for Medications Development
George F. Koob

Psychedelics in Psychiatry: Neuroplastic, Immunomodulatory, and Neurotransmitter Mechanisms
Antonio Inserra, Danilo De Gregorio, and Gabriella Gobbi

Subcellular Organization of the cAMP Signaling Pathway
Manuela Zaccoto, Anna Zerio, and Miguel J. Lobo

Erratum
Correction to “Pharmacological Manipulation of Translation as a Therapeutic Target for Chronic Pain”

Supplemental material is available online at http://pharmrev.aspetjournals.org.

About the cover: Conceptual framework for the neurobiological basis of substance use disorders, involving a three-stage cycle—binge/intoxication, withdrawal/negative affect, and preoccupation/anticipation.” See the article by Koob. (dx.doi.org/10.1124/pharmrev.120.000083)